

# Product Datasheet

## CARS Antibody - BSA Free NBP1-86624

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP1-86624](http://www.novusbio.com/NBP1-86624)

Updated 2/21/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP1-86624](http://www.novusbio.com/reviews/destination/NBP1-86624)



**NBP1-86624**

CARS Antibody - BSA Free

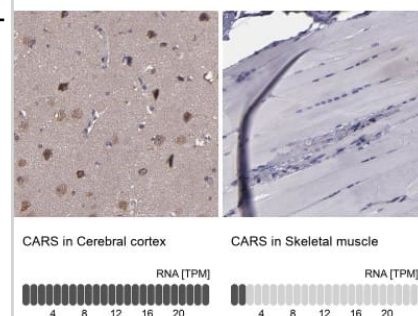
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	833
Gene Symbol	CARS1
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SQCNLYMAARKAVRKRPNQALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPG TSLSLEATVMPYLQVLSEFREGVRKIAREQKVPEILQLSDALRDNILPELGVRFE DHEGLPTVVKLVDNRNTLLKEREEKRRVE

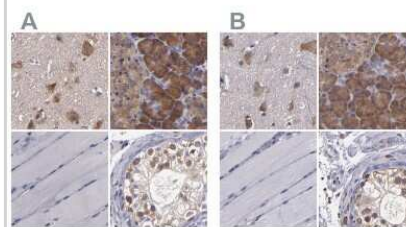
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

**Images**

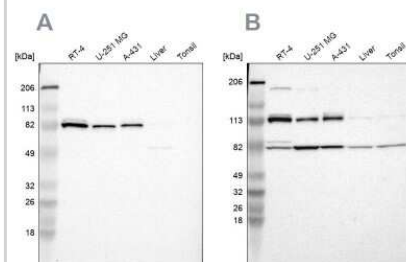
Immunohistochemistry-Paraffin: CARS Antibody [NBP1-86624] - Staining in human cerebral cortex and skeletal muscle tissues using anti-CARS antibody. Corresponding CARS RNA-seq data are presented for the same tissues.



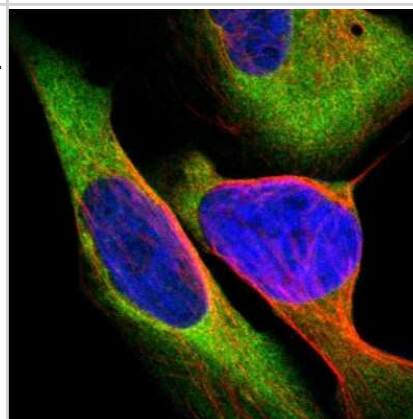
**Immunohistochemistry-Paraffin: CARS Antibody [NBP1-86624] - Staining of human cerebral cortex, pancreas, skeletal muscle and testis using Anti-CARS antibody NBP1-86624 (A) shows similar protein distribution across tissues to independent antibody NBP1-86623 (B).**



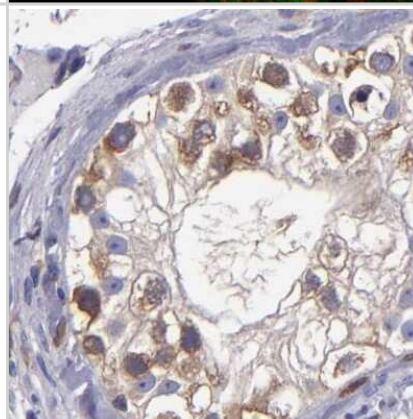
**Western Blot: CARS Antibody [NBP1-86624] - Analysis using Anti-CARS antibody NBP1-86624 (A) shows similar pattern to independent antibody NBP1-86623 (B).**



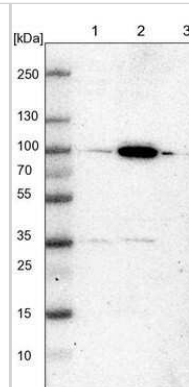
**Immunocytochemistry/Immunofluorescence: CARS Antibody [NBP1-86624] - Staining of human cell line U-2 OS shows localization to cytosol. Antibody staining is shown in green.**



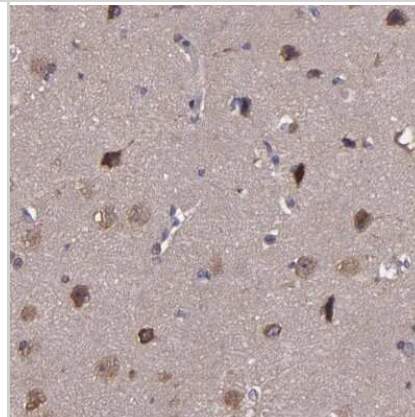
**Immunohistochemistry-Paraffin: CARS Antibody [NBP1-86624] - Staining of human testis.**



Western Blot: CARS Antibody [NBP1-86624] - Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells). Lane 2: NBT-II cell lysate (Rat Wistar bladder tumor cells). Lane 3: PC12 cell lysate (Pheochromocytoma of rat adrenal medulla).



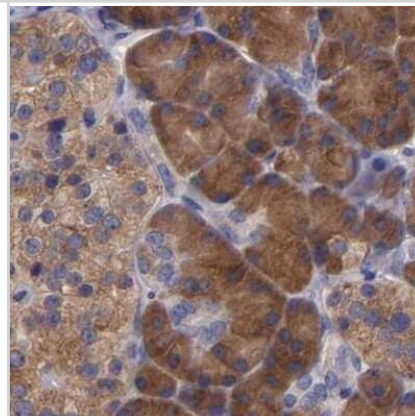
Immunohistochemistry-Paraffin: CARS Antibody [NBP1-86624] - Staining of human cerebral cortex shows high expression.



Immunohistochemistry-Paraffin: CARS Antibody [NBP1-86624] - Staining of human skeletal muscle shows low expression as expected.



Immunohistochemistry-Paraffin: CARS Antibody [NBP1-86624] - Staining of human pancreas.



## Publications

Xiu-Hong Qi, Peng Chen, Yue-Ju Wang, Zhe-Ping Zhou, Xue-Chun Liu, Hui Fang, Chen-Wei Wang, Ji Liu, Rong-Yu Liu, Han-Kui Liu, Zhen-Xin Zhang, Jiang-Ning Zhou Increased cysteinyl-tRNA synthetase drives neuroinflammation in Alzheimer's disease Translational Neurodegeneration 2024-01-08 [PMID: 38191451]

Han-Kui Liu, Hong-Lin Hao, Hui You, Feng Feng, Xiu-Hong Qi, Xiao-Yan Huang, Bo Hou, Chang-Geng Tian, Han Wang, Huan-Ming Yang, Jian Wang, Rui Wu, Hui Fang, Jiang-Ning Zhou, Jian-Guo Zhang, Zhen-Xin Zhang A Cysteinyl-tRNA Synthetase Mutation Causes Novel Autosomal-Dominant Inheritance of a Parkinsonism/Spinocerebellar-Ataxia Complex. Neuroscience bulletin 2024-06-13 [PMID: 38869703]

Stadler C, Hjelmare M, Neumann B et al. Systematic validation of antibody binding and protein subcellular localization using siRNA and confocal microscopy. J Proteomics 2012-04-03 [PMID: 22361696]





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-86624**

---

NBP1-86624PEP	CARS Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP1-86624](http://www.novusbio.com/reviews/submit/NBP1-86624)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

